

ccccgccgtg agtgagctct cccccagtc agccaaatga gcctcttcgg gcttctcctg 60  
 gtgacatctg ccctggccgg ccagagacga gggactcagg cggaaatccaa cctgagtagt 120  
 aaattccagt tttccagcaa caaggaacag aacggagtac aagatccctca gcatgagaga 180  
 attattactg tgtctactaa tgggaagtatt cacagcccaa ggtttccctca tacttatcca 240  
 agaaatcagg tcttggtatg gagattagta gcagtagagg aaaatgtatg gatacaactt 300  
 acgtttgatg aaagatttgg gcttgaagac ccagaagatg acatatgcaa gtatgatitt 360  
 gtagaagtig aggaaccacg tgatggaaact atattagggc gctgggtgtg ttcctggtaact 420  
 gtaccaggaa aacagatttc taaaggaat caaattagga taagatttgt atctgatgaa 480  
 ttttttctt ctgaaccagg gttctgcac cactacaaca ttgtcatgcc acaattcaca 540  
 gaagctgtga gtccttcagt gctacccct tcagctttgc cactggacct gcttaataat 600  
 gctataactg cctttagtac cttggaagac cttattcgat atcttgaacc agagagatgg 660  
 cagttggact tagaagatct atotaggcca acttggcaac ttcttggcaa ggcttttgtt 720  
 tttggaagaa aatccagagt ggtggatctg aaccttctaa cagaggaggt aagatttatc 780  
 agctgcacac ctgtaactt ctcaagtgtcc ataaggggaag aactaaagag aaccgatacc 840  
 attttctggc caggttgtct cctgggttaa cgctgtgggt ggaactgtgc ctgttgtctc 900  
 cacaattgca atgaatgtca atgtgtccca agcaaagtta ctaaaaaata ccacgaggtc 960  
 cttcagttga gaccaagac cgggtgtcagg ggattgcaca aatcactcac cgacgtggcc 1020  
 ctggagcacc atgaggagtg tgactgtgtg tgcagagggg gcacaggagg atagccgcct 1080  
 caccaccagc agctcttgcc cafafctgtg cagtgcagtg gctgattcta ttagagaacg 1140  
 tatgcgttat ctccatcctt aatctcagtt gtttgcttca aggaccttc atcttcagga 1200

FIG. 1A

ttacagtgt attctgaaag aggagacatc aaacagaatt aggacttggt caacagctct 1260  
 ttgagagga ggcctaaagg acaggagaaa aggtcttcaa tegtggaaag aaaattaaat 1320  
 gttgtattaa atagatcacc agctagtctc agagtcacca tgtacgtatt ccactagctg 1380  
 ggttctgtat ttcagttctt tcgatacggc ttagggtaat gtcagtacag gaaaaaaaaact 1440  
 gtgcaagtga gcacctgatt ccgttgcctt gcttaactct aaagctccat gtccctgggcc 1500  
 taaaatcgta taaaatctgg attttttttt ttttttttgc tcatattcac atatgtaaac 1560  
 cagaacattc tatgtactac aaacctgggt tttaaaaagg aactatgttg ctatgaatta 1620  
 aacttggtgc rtgctgatag gacagactgg attttccata tttcttatta aaatttctgc 1680  
 catttogaag aagagaacta cattcatggt ttggaagaga taaacctgaa aagaagagtg 1740  
 gccttatcct cactttatcg ataagtact ttatttggtt cattgtgtac atttttatat 1800  
 tctccttttg acattataac tgttggcctt tctaactctg ttaaatatat ctatttttac 1860  
 caaaggatatt taatattctt ttttatgaca acttagatca actattttta gcttggtaaa 1920  
 tttttctaaa cacaattggt atagccagag gaacaaagat ggotataaaa atattgttgc 1980  
 cctggacaaa aatocatgta tntccatccc ggaatgggtgc tagagttaga ttaaacctgc 2040  
 attttaaaaa acctgaattg ggaanggaan ttggttaagg ttggccaaanc ttttttgaaa 2100  
 ataattaa 2108

FIG. 1B

Met	Ser	Leu	Phe	Gly	Leu	Leu	Leu	Cal	Thr	Ser	Ala	Leu	Ala	Gly	Gln	1	5	10	15
Arg	Arg	Gly	Thr	Gln	Ala	Glu	Ser	Asn	Leu	Ser	Ser	Lys	Phe	Gln	Phe	20	25	30	
Ser	Ser	Asn	Lys	Glu	Gln	Asn	Gly	Val	Gln	Asp	Pro	Gln	His	Glu	Arg	35	40	45	
Ile	Ile	Thr	Val	Ser	Thr	Asn	Gly	Ser	Ile	His	Ser	Pro	Arg	Phe	Pro	50	55	60	
His	Thr	Tyr	Pro	Arg	Asn	Thr	Val	Leu	Val	Trp	Arg	Leu	Val	Ala	Val	65	70	75	80
Glu	Glu	Asn	Val	Trp	Ile	Gln	Leu	Thr	Phe	Asp	Glu	Arg	Phe	Gly	Leu	85	90	95	
Glu	Asp	Pro	Glu	Asp	Asp	Ile	Cys	Lys	Gly	Asp	Phe	Val	Glu	Val	Glu	100	105	110	
Glu	Pro	Ser	Asp	Gly	Thr	Ile	Leu	Gly	Arg	Trp	Cys	Gly	Ser	Gly	Thr	115	120	125	
Val	Pro	Gly	Lys	Gln	Ile	Ser	Lys	Gly	Asn	Gln	Ile	Arg	Ile	Arg	Phe	130	135	140	
Val	Ser	Asp	Glu	Tyr	Phe	Pro	Ser	Glu	Pro	Gly	Phe	Cys	Ile	His	Tyr	145	150	155	160
Asn	Ile	Val	Met	Pro	Gln	Phe	Thr	Glu	Ala	Val	Ser	Pro	Ser	Val	Leu	165	170	175	
Pro	Pro	Ser	Ala	Leu	Pro	Leu	Asp	Leu	Leu	Asn	Asn	Ala	Ile	Thr	Ala	180	185	190	
Phe	Ser	Thr	Leu	Glu	Asp	Leu	Ile	Arg	Tyr	Leu	Glu	Pro	Glu	Arg	Trp	195	200	205	
Gln	Leu	Asp	Leu	Glu	Asp	Leu	Tyr	Arg	Pro	Thr	Trp	Gln	Leu	Leu	Gly	210	215	220	
Lys	Ala	Phe	Val	Phe	Gly	Arg	Lys	Ser	Arg	Val	Val	Asp	Leu	Asn	Leu	225	230	235	240
Leu	thr	Glu	Glu	Val	Arg	Leu	Tyr	Ser	Cys	Thr	Pro	Arg	Asn	Phe	Ser	245	250	255	
Val	Ser	Ile	Arg	Glu	Glu	Leu	Lys	Arg	Thr	Asp	Thr	Ile	Phe	Trp	Pro	260	265	270	
Gly	Cys	Leu	Leu	Val	Lys	Arg	Cys	Gly	Gly	Asn	Cys	Ala	Cys	Cys	Leu	275	280	285	

FIG. 2A

His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Ser	Lys	Val	Thr	Lys	Lys
	290					295					300				
Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr	Gly	Val	Arg	Gly	Leu
305					310					315					320
His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His	His	Glu	Glu	Cys	Asp
				325					330					335	
Cys	Val	Cys	Arg	Gly	Ser	Thr	Gly	Gly							
			340					345							

FIG. 2B

cgggtaaatt ccagttttcc agcaacaagg aacagaacgg agtacaagat cctcagcatg 60  
 agagaattat tactgtgtct actaatggaa glattcacag cccaagggtt cctcatactt 120  
 atccaagaaa tacgggtctg gtatggagat tagtagcagt agaggaaaat gtatggatac 180  
 aacttacgtt tgotgaaaga ttggggcttg aagaccaga agatgacata tgcaagtatg 240  
 attttgtaga agttgaggaa cccagtgatg gaactatatt agggcgctgg tgtggttctg 300  
 gtactgtacc aggaaaacag atttctaag gaaatcaat taggataaga tttgtatctg 360  
 atgaatatit tccttctgaa ccagggttct gcattccata caacattgtc atgccacaat 420  
 tcacagaagc tgtgagtcct tcagtgtac ccccttcagc ttggccactg gacctgctta 480  
 ataotgtat aactgccitt agtacccttg aagacctat tcgatatctt gaaccagaga 540  
 gatggcagtt ggacttagaa gatctatata ggccaacttg gcaacttctt ggcaaggctt 600  
 ttgtttttgg aagaaaatcc agagtggtag atctgaacct tctaacagag gaggtaagat 660  
 tatacagctg cacacctcgt aacttctcag tgtccataag ggaagaacta aagagaaccg 720  
 ataccatttt ctggccaggt tgtctcctgg ttaaacgctg tggtaggaac tgtgcctggt 780  
 gtctccacaa ttgcaatgaa tgtcaatgtg tccaagcaa agttactaaa aataccacg 840  
 aggtccttca gttgagacca aasaccggtag tcaggggatt gcacaaatca ctaccgacg 900  
 tggccctgga gcaccatgag gagtgtgact gtgtgtgtag agggagcaca ggaggatagc 960  
 cgcattacca ccagcagctc ttggccagag ctgtgcagtg cagtggctga ttctattaga 1020  
 gaacgtatgc gttatctcca tccttaotct cagtgttttg ctccaaggac ctctcatctt 1080  
 caggatttac agtgcattct gaaagaggag acatcaaca gaattaggag ttgtgcaaca 1140  
 gctcttttga gaggaggcct aaaggacagg agaaaaggc ttcaatcgtg gaaagaaaat 1200  
 taaatgttgt attaaataga tcaccagcta gtttcagagt taccatgtat gtattccact 1260  
 agctgggttc tgtatttcag ttctttcgt acggcttagg gtaatgtcag tacaggaaaa 1320  
 aaactgtgca agtgagcacc tgattccgtt gccttgctta actctaaagc tccatgtcct 1380  
 gggcctaaaa tcgtataaaa tctggatttt tttttttttt ttgtctcata ttacatatg 1440  
 taaaccagaa cattctatgt actacaacc tggtttttaa aaaggaacta tgttgctatg 1500  
 aattoaacct gtgtcatgct gataggacag actgga 1536

FIG.3

Gly	Lys	Phe	Gln	Phe	Ser	Ser	Asn	Lys	Glu	Gln	Asn	Gly	Val	Gln	Asp
1				5					10					15	
Pro	Gln	His	Glu	Arg	Ile	Ile	Thr	Val	Ser	Thr	Asn	Gly	Ser	Ile	His
			20					25					30		
Ser	Pro	Arg	Phe	Pro	His	Thr	Tyr	Pro	Arg	Asn	The	Val	Leu	Val	Trp
		35					40					45			
Arg	Leu	Val	Ala	Val	Glu	Glu	Asn	Val	Trp	Ile	Gln	Leu	Thr	Phe	Asp
	50					55					60				
Glu	Arg	Phe	Gly	Leu	Glu	Asp	Pro	Glu	Asp	Asp	Ile	Cys	Lys	Tyr	Asp
65					70					75					80
Phe	Val	Glu	Val	Glu	Glu	Pro	Ser	Asp	Gly	The	Ile	Leu	Gly	Arg	Trp
				85					90					95	
Cys	Gly	Ser	Gly	Thr	Val	Pro	Gly	Lys	Gln	Ile	Ser	Lys	Gly	Asn	Gln
			100					105					110		
Ile	Arg	Ile	Arg	Phe	Val	Ser	Asp	Glu	Tyr	Phe	Pro	Ser	Glu	Pro	Gly
		115					120					125			
Phe	Cys	Ile	His	Tyr	Asn	Ile	Val	Met	Pro	Gln	Phe	Thr	Glu	Ala	Val
	130					135					140				
Ser	Pro	Ser	Val	Leu	Pro	Pro	Ser	Ala	Leu	Pro	Leu	Asp	Leu	Leu	Asn
145					150					155					160
Asn	Ala	Ile	Thr	Ala	Phe	Ser	Thr	Leu	Glu	Asp	Leu	Ile	Arg	Tyr	Leu
				165					170					175	
Glu	Pro	Glu	Arg	Trp	Gln	Leu	Asp	Leu	Glu	Asp	Leu	Tyr	Arg	Pro	Thr
			180					185					190		
Trp	Gln	Leu	Leu	Glu	Lys	Ala	Phe	Val	Phe	Gly	Arg	Lys	Ser	Arg	Val
		195				200						205			
Val	Asp	Leu	Asn	Leu	Leu	Thr	Glu	Glu	Val	Arg	Leu	Tyr	Ser	Cys	Thr
	210					215					220				
Pro	Arg	Asn	Phe	Ser	Val	Ser	Ile	Arg	Glu	Glu	Leu	Lys	Arg	Thr	Asp
225					230					235					240
the	Ile	Phe	Trp	Pro	Gly	Cys	Leu	Leu	Val	Lys	Arg	Cys	Gly	Gly	Asn
				245					250					255	
Cys	Ala	Cys	Cys	Leu	His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Ser
			260					265					270		
Lys	Val	Thr	Lys	Lys	Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr
		275					280					285			
Gly	Val	Arg	Gly	Leu	His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His
	290					295					300				
His	Glu	Glu	Cys	Asp	Cys	Val	Cys	Arg	Gly	Ser	Thr	Gly	Gly		
305					310					315					

FIG.4

cacctggaga cacagaagag ggctctagga aaaatlttg atggggatta tgtggaaact 60  
 accctgcat tctctgctgc cagagccggc caggcgcttc caccgcagcg cagcctttcc 120  
 ccgggctggg ctgagccttg gagtcgtcgc tccccagtg ccgcgcgcga gtgagccctc 180  
 gccccagtca gccaaatgct cctcctcggc cctcctcggc ctcctcctgc gctggccggc 240  
 caaagaacgg ggaactegggc tgagtccaac ctgagcagca agttgcagct ctccagcgac 300  
 aaggaacaga acggagtgca agatccccgg catgagagag ttgtcactat atctggtaat 360  
 gggagcatcc acagcccga gtttctcat acgtacccaa gaaatatggt gctgggtggtg 420  
 agattagttg cagtagatga tatagtgcgg atccagctga catttgatga gagatttggtg 480  
 ctggaagatc cagaagacga tatatgcaag tatgattttg tagaagttga ggagcccagt 540  
 gatggaagtg ttttaggacg ctgggtgtgtg tctgggactg tgccaggaaa gcagacttct 600  
 aaaggaaatc atatcaggat aagatttgta tctgatgagt attttccatc tgaaccggga 660  
 ttctgcatcc actacagtat tatcatgcca caagtcacag aaaccacgag tccttcgggtg 720  
 ttgccccctt catctttgtc attggacctg ctcaacaatg ctgtgactgc cttcagtacc 780  
 ttggaagagc tgattcggta cctagagcca gatcgatggc aggtggactt ggacagcctc 840  
 tacaagccaa catggcagct tttgggcaag gctttcctgt atgggaaaaa aagcaaagtg 900  
 gtgaatctga atctctcaa ggaagaggta aaactctaca gctgcacacc ccggaacttc 960  
 tcagtgtcca tacgggaaga gctaagagg acagatacca tattctggcc aggttgtttt 1020  
 ctggtcaagt gctgtggagg aaattgtgcc tgttgtctcc ataattgcaa tgaatgtcag 1080  
 tgtgtcccac gtaagttac aaaaaagtac catgaggctc ttcagttgag accaaaaact 1140  
 ggagtcaagg gattgcataa gtcactcact gatgtggctc tggaacacca cgaggaaatgt 1200  
 gactgtgtgt gtagaggaaa cgcaggaggg taactgcagc cttcgtagca gcacacgtga 1260  
 gcactggcat tctgtgtacc ccacaagca accttcatcc ccaccagcgt tggccgcagg 1320  
 gctctcagct gctgatgctg gctatggtaa agatcttact cgtctccaac caaatctca 1380  
 gttgtttgct tcaatagcct tccctgcag gacttcaagt gtcttctaaa agaccagagg 1440  
 caccaanagg agtcaatcac aaagcaactgc accg 1474

FIG.5

Met	Leu	Leu	Leu	Gly	Leu	Leu	Leu	Leu	Thr	Ser	Ala	Leu	Ala	Gly	Gln	1	5	10	15
Arg	Thr	Gly	Thr	Arg	Ala	Glu	Ser	Asn	Leu	Ser	Ser	Lys	Leu	Gln	Leu	20	25	30	
Ser	Ser	Asp	Lys	Glu	Gln	Asn	Gly	Val	Gln	Asp	Pro	Arg	His	Glu	Arg	35	40	45	
Val	Val	Thr	Ile	Ser	Gly	Asn	Gly	Ser	Ile	His	Ser	Pro	Lys	Phe	Pro	50	55	60	
His	Thr	Tyr	Pro	Arg	Asn	Met	Val	Leu	Val	Trp	Arg	Leu	Val	Ala	Val	65	70	75	80
Asp	Glu	Asn	Val	Arg	Ile	Gln	Leu	Thr	Phe	Asp	Glu	Arg	Phe	Gly	Leu	85	90	95	
Glu	Asp	Pro	Glu	Asp	Asp	Ile	Cys	Lys	Tyr	Asp	Phe	Val	Glu	Val	Glu	100	105	110	
Glu	Pro	Ser	Asp	Gly	Ser	Val	Leu	Gly	Arg	Trp	Cys	Gly	Ser	Gly	Thr	115	120	125	
Val	Pro	Gly	Lys	Gln	Thr	Ser	Lys	Gly	Asn	His	Ile	Arg	Ile	Arg	Phe	130	135	140	
Val	Ser	Asp	Glu	Tyr	Phe	Pro	Ser	Glu	Pro	Gly	Phe	Cys	Ile	His	Tyr	145	150	155	160
Ser	Ile	Ile	Met	Pro	Gln	Val	Thr	Glu	Thr	Thr	Ser	Pro	Ser	Val	Leu	165	170	175	
Pro	Pro	Ser	Ser	Leu	Ser	Leu	Asp	Leu	Leu	Asn	Asn	Ala	Val	Thr	Ala	180	185	190	
Phe	Ser	Thr	Leu	Glu	Glu	Leu	Ile	Arg	Tyr	Leu	Glu	Pro	Asp	Arg	Trp	195	200	205	
Gln	Val	Asp	Leu	Asp	Ser	Leu	Tyr	Lys	Pro	Thr	Trp	Gln	Leu	Leu	Gly	210	215	220	
Lys	Ala	Phe	Leu	Tyr	Gly	Lys	Lys	Ser	Lys	Val	Val	Asn	Leu	Asn	Leu	225	230	235	240
Leu	Lys	Glu	Glu	Val	Lys	Leu	Tyr	Ser	Cys	Thr	Pro	Arg	Asn	Phe	Ser	245	250	255	
Val	Ser	Ile	Arg	Glu	Glu	Leu	Lys	Arg	Thr	Asp	Thr	Ile	Phe	Trp	Pro	260	265	270	
Gly	Cys	Leu	Leu	Val	Lys	Arg	Cys	Gly	Gly	Asn	Cys	Ala	Cys	Cys	Leu	275	280	285	

FIG. 6A

His	Asn	Cys	Asn	Glu	Cys	Gln	Cys	Val	Pro	Arg	Lys	Val	Thr	Lys	Lys
	290					295					300				
Tyr	His	Glu	Val	Leu	Gln	Leu	Arg	Pro	Lys	Thr	Gly	Val	Lys	Gly	Leu
305					310					315					320
His	Lys	Ser	Leu	Thr	Asp	Val	Ala	Leu	Glu	His	His	Glu	Glu	Cys	Asp
				325					330					335	
Cys	Val	Cys	Arg	Gly	Asn	Ala	Gly	Gly							
			340					345							

FIG. 6B

hPDGF-C	M	S	L	F	G	L	L	V	T	S	A	L	A	G	Q	R	R	G	T	Q	A	E	S	N	L	S	S	K	F	Q	F	S	S	N	K	E	Q	N	G	40	
mPDGF-C	M	L	L	G	L	L	L	L	T	S	A	L	A	G	Q	R	T	G	T	R	R	E	S	N	L	S	S	K	L	Q	L	S	S	O	K	E	O	N	G	40	
hPDGF-C	V	Q	P	O	H	E	R	L	L	T	V	S	T	N	G	S	I	H	S	P	P	F	P	H	T	Y	F	R	N	T	V	L	V	N	R	L	V	A	V	80	
mPDGF-C	V	Q	D	P	R	M	E	R	V	V	T	I	S	G	N	G	S	T	H	S	R	K	F	P	H	T	Y	F	R	N	M	V	L	V	N	R	L	V	A	V	80
hPDGF-C	F	E	N	V	N	I	Q	L	T	F	D	E	R	F	G	L	E	D	P	E	D	I	C	K	Y	D	F	V	E	V	E	E	P	S	D	G	T	T	S	120	
mPDGF-C	G	E	N	V	R	T	Q	L	T	F	D	E	R	F	G	L	E	D	P	E	D	I	C	E	Y	D	F	V	E	V	E	E	P	S	D	G	S	V	S	120	
hPDGF-C	G	R	W	C	G	S	G	T	V	F	G	K	Q	I	S	K	G	N	O	I	R	I	R	F	V	S	D	E	Y	F	P	S	E	P	G	F	C	I	H	Y	160
mPDGF-C	G	R	W	C	G	S	G	T	V	F	G	K	Q	T	S	K	G	N	H	I	R	I	R	F	V	S	D	E	Y	E	P	S	E	P	G	F	C	I	H	Y	160
hPDGF-C	N	I	V	M	P	Q	F	T	E	A	V	S	P	S	V	L	P	P	S	S	L	P	L	D	L	L	N	N	A	I	T	A	F	S	T	L	F	D	L	I	200
mPDGF-C	S	I	I	M	P	Q	V	T	E	T	T	S	P	S	V	L	P	P	S	S	L	S	L	D	L	L	N	N	A	V	T	A	F	S	T	L	F	D	L	I	200
hPDGF-C	R	Y	L	E	P	F	R	W	Q	L	P	L	E	O	L	Y	E	F	T	W	Q	L	L	C	K	A	F	V	F	G	R	K	S	R	V	V	D	L	N	L	240
mPDGF-C	R	Y	L	E	P	D	P	W	Q	V	P	L	P	S	L	Y	K	P	T	W	Q	L	L	G	F	A	F	L	Y	G	K	K	S	N	V	V	N	L	N	L	240
hPDGF-C	L	T	E	E	V	R	L	Y	S	C	T	P	R	N	F	S	V	S	I	R	E	E	L	K	R	T	D	T	I	F	W	P	G	G	L	L	V	K	R	C	280
mPDGF-C	L	K	F	F	V	K	L	Y	S	C	T	P	R	N	F	S	V	S	I	R	E	E	L	K	R	T	D	T	I	F	W	P	G	G	L	L	V	K	R	C	280
hPDGF-C	G	G	N	C	A	C	C	L	R	N	C	N	E	C	Q	C	V	P	S	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	R	G	Y	320
mPDGF-C	G	G	N	C	A	C	C	L	R	V	C	N	E	C	Q	C	V	P	R	K	V	T	K	K	Y	H	E	V	L	O	L	R	P	K	T	G	V	R	G	Y	320
hPDGF-C	H	E	S	L	T	D	V	A	L	E	H	H	E	E	C	D	C	V	C	R	G	S	T	G	G																345
mPDGH-C	H	E	S	L	T	D	V	A	L	E	H	H	E	E	C	D	C	V	C	R	G	N	A	G	G																345

FIG.7

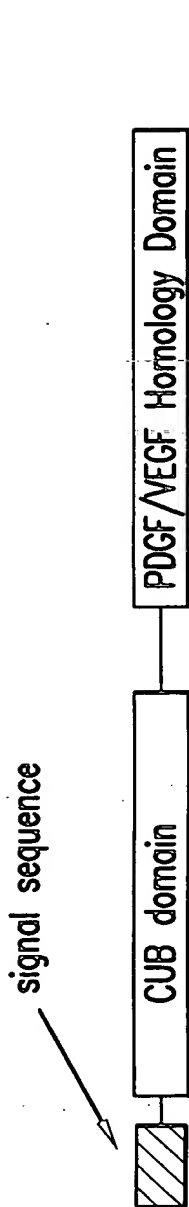


FIG. 8

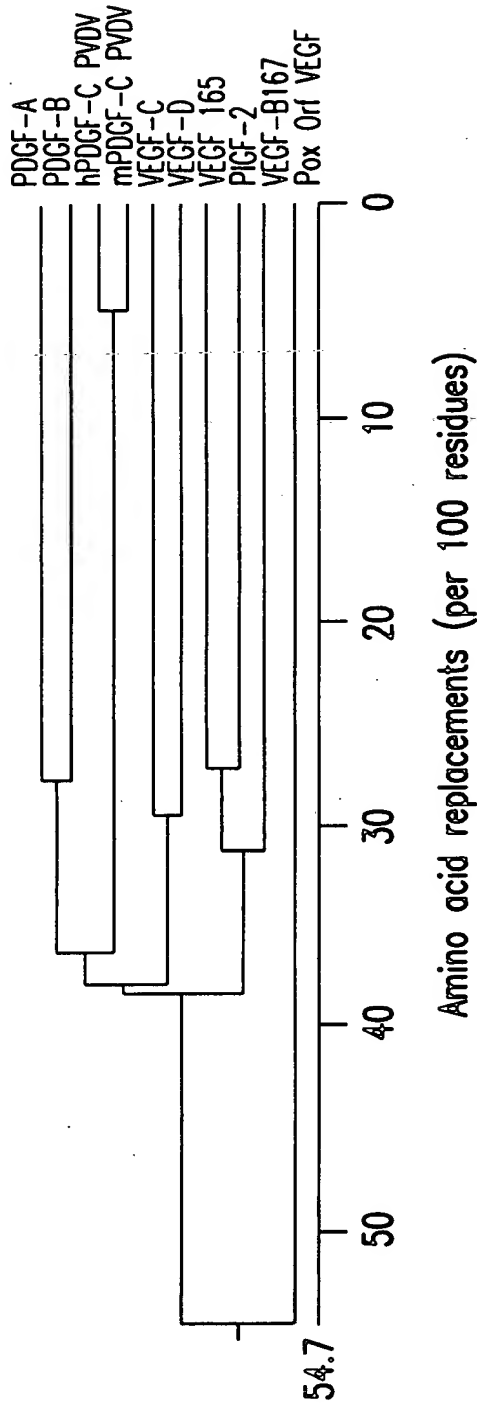


FIG. 10

VEGF 165	-----	1
PIGF-2	-----	1
VEGF-B167	-----	1
Pgx Crf VEGF	-----	1
VEGF-C	M H L L G F F S V A C S L L A A A L L P G P R E A P A A A A	30
VEGF-D	----- M Y G E W G M G N I L M M F H	15
PDGF-A	-----	1
PDGF-B	-----	1
hPDGF-C PVDV	-----	1
mPDGF-C PVDV	-----	1

VEGF 165	-----	1
PIGF-2	-----	1
VEGF-B167	-----	1
Pox Orf VEGF	-----	1
VEGF-C	A F E S G L D L S D A E P D A G E A T A Y A S K D L E E Q L	60
VEGF-D	V Y L V O G F R S E H G P Y K D F S F E R S S R S M L E R S	45
PDGF-A	--- M R T L A C L L L L G C G Y L A N V L A E E A E I P	26
PDGF-B	M N R C W A L F L S L C C Y L R L V S A E G D P I P E E L Y	30
hPDGF-C PVDV	--- M P Q F T E A V S P S V L P P S A L P L D L L	23
mPDGF-C PVDV	--- M P Q V T E T T S P S V L P P S A L S L D L L	23

VEGF 165	----- M N F L L S W V E W	10
PIGF-2	----- M P V M R L F P C F	10
VEGF-B167	----- M S P L L	5
Pox Orf VEGF	-----	1
VEGF-C	R S V S S V D E L M T V L Y P E Y W K M Y K C Q L R K G G W	90
VEGF-D	E O O I R A A S S L E E L L O I A H S E D W K L W R C R L K	75
PDGF-A	R E V I E R L A R S Q I H S I R D L Q R L L E I D S V G S E	56
PDGF-B	E M L S D H S I R S F D D L O R L L H G D P - - - - G E E	55
hPDGF-C PVDV	N N A I T A F S T L E D L I R Y L E P E R W Q L D L E D L Y	53
mPDGF-C PVDV	N N A V T A F S T L E E L I R Y L E P D R W Q V D L D S L Y	53

VEGF 165	S L A L L L Y L H H A K W S Q A A P M A E G G G Q N H H E V	40
PIGF-2	L Q L L A G L A L P A V P P Q Q W A L S A G N G S S E V E V	40
VEGF-B167	R R L L L A A L L Q L A P A Q A P V S Q P D A P G H Q R K V	35
Pox Orf VEGF	--- M K L L V G I L V A V C L H Q Y L L N A D S N T	24
VEGF-C	Q H N R E Q A N L N S R T E E T I K F A A A H Y N T E I - L	119
VEGF-D	L K S L A S M D S R S A S H R S T R F A A T F Y D T E T - L	104
PDGF-A	D S L D T S L R A H G V H - - A T K H V P E K R P L R I R R	84
PDGF-B	D G A E L D L N M T R S H S G G E L E S L A R G R R S L G S	85
hPDGF-C PVDV	R P T W Q L L G K A F V F G R K S R - - - - - V V D L	75
mPDGF-C PVDV	K P T W Q L L G K A F L Y G K K S K - - - - - V V N L	75

FIG. 9A

VEGF 165	V	K	F	M	D	V	Y	O	R	S	Y	C	H	P	I	E	T	L	V	D	I	F	Q	E	Y	P	D	E	I	E	70					
PIGF-2	V	P	F	Q	E	V	W	G	R	S	Y	C	R	A	L	E	R	L	V	D	V	V	S	E	Y	P	S	E	V	E	70					
VEGF-B167	V	S	W	I	D	V	Y	T	R	A	T	C	Q	P	R	E	V	V	V	P	L	T	V	E	L	M	G	T	V	A	65					
Pox Orf VEGF	K	G	W	S	E	V	L	K	G	S	E	C	K	P	R	P	I	V	V	P	V	S	E	T	H	P	E	L	T	S	54					
VEGF-C	K	S	I	D	N	E	W	R	K	T	Q	C	M	P	R	E	V	C	I	D	V	G	K	E	F	G	V	A	T	N	149					
VEGF-D	K	V	I	D	E	E	W	D	R	T	Q	C	S	P	R	E	T	C	V	E	V	A	S	E	L	G	K	T	T	N	134					
PDGF-A	K	R	S	I	E	E	A	V	P	A	V	C	K	T	R	T	V	I	Y	E	I	P	R	S	Q	V	D	P	T	S	114					
PDGF-B	L	T	I	A	E	P	A	M	I	A	E	C	K	T	R	T	E	V	F	E	I	S	R	R	L	I	D	R	T	N	115					
HPDGF-C PVDV	N	L	L	T	E	E	V	R	L	Y	S	C	T	P	R	N	F	S	V	S	I	-	R	E	E	L	K	R	T	D	104					
mPDGF-C PVDV	N	L	L	K	E	E	V	K	L	Y	S	C	T	P	R	N	F	S	V	S	I	-	R	E	E	L	K	R	T	D	104					
VEGF 165	Y	I	F	K	-	-	P	S	C	V	P	L	M	R	C	G	G	-	-	-	C	C	N	D	E	G	L	E	C	V	95					
PIGF-2	H	M	F	S	-	-	P	S	C	V	S	L	L	R	C	T	G	-	-	-	C	C	G	D	E	D	L	H	C	V	95					
VEGF-B167	K	Q	L	V	-	-	P	S	C	V	T	V	Q	R	C	G	G	-	-	-	C	C	P	D	D	G	L	E	G	V	90					
Pox Orf VEGF	Q	R	F	N	-	-	P	P	C	V	T	L	M	R	C	G	G	-	-	-	C	C	N	D	E	S	L	E	C	V	79					
VEGF-C	T	F	F	K	-	-	P	P	C	V	S	V	Y	R	C	G	G	-	-	-	C	C	N	S	E	G	L	Q	C	M	174					
VEGF-D	T	F	F	K	-	-	P	P	C	V	N	V	F	R	C	G	G	-	-	-	C	C	N	E	E	G	V	M	C	M	159					
PDGF-A	A	N	F	L	I	W	P	P	C	V	E	V	K	R	C	T	G	-	-	-	C	C	N	T	S	S	V	K	C	Q	141					
PDGF-B	A	N	F	L	V	W	P	P	C	V	E	V	Q	R	C	S	G	-	-	-	C	C	N	N	R	N	V	Q	C	R	142					
hPDGF-C PVDV	T	I	F	-	-	W	P	G	C	L	L	V	K	R	C	G	G	N	C	A	C	C	L	H	N	C	N	E	C	Q	132					
mPDGF-C PVDV	T	I	F	-	-	W	P	G	C	L	L	V	K	R	C	G	G	N	C	A	C	C	L	E	N	C	N	E	C	Q	132					
VEGF 165	P	T	E	E	S	N	I	T	M	Q	I	M	R	I	K	-	-	-	P	H	Q	G	Q	-	-	-	-	-	H	I	117					
PIGF-2	P	V	E	T	A	N	V	T	M	Q	L	L	K	I	R	-	-	-	S	G	D	R	P	-	-	-	-	-	S	Y	117					
VEGF-B167	P	T	G	Q	H	Q	V	R	M	Q	I	L	M	I	R	Y	-	-	P	S	S	Q	L	-	-	-	-	-	-	111						
Pox Orf VEGF	P	T	E	E	V	N	V	S	M	E	L	L	G	A	S	G	S	G	S	N	G	M	Q	-	-	-	-	-	R	L	104					
VEGF-C	N	T	S	T	S	Y	L	S	K	T	L	F	E	I	T	V	-	-	P	L	S	Q	G	-	-	-	-	-	P	K	197					
VEGF-D	N	T	S	T	S	Y	I	S	K	O	L	F	E	I	S	V	-	-	P	L	T	S	V	-	-	-	-	-	P	E	182					
PDGF-A	P	S	R	V	H	H	R	S	V	K	V	A	K	V	E	Y	V	R	K	K	P	K	L	-	-	-	-	-	K	E	166					
PDGF-B	P	T	Q	V	Q	L	R	P	V	Q	V	R	K	L	E	I	V	R	K	K	P	I	F	-	-	-	-	-	K	K	167					
hPDGF-C PVDV	C	V	P	-	S	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	R	G	L	H	K	S	L	161					
mPDGF-C PVDV	C	V	P	-	R	K	V	T	K	K	Y	H	E	V	L	Q	L	R	P	K	T	G	V	K	G	L	H	K	S	L	161					
VEGF 165	G	E	M	S	F	L	Q	H	N	K	-	C	E	C	R	P	K	K	-	-	-	-	-	-	-	-	-	-	-	D	R	136				
PIGF-2	V	E	L	T	F	S	Q	H	V	R	-	C	E	C	R	P	L	R	E	-	-	-	-	-	-	-	-	K	M	K	P	E	R	142		
VEGF-B167	G	E	M	S	L	E	E	H	S	Q	-	C	E	C	R	P	K	K	K	-	-	-	-	-	-	-	-	D	S	A	V	K	P	135		
Pox Orf VEGF	S	F	V	E	H	K	K	-	-	-	-	C	D	C	R	P	R	F	T	-	-	-	-	-	-	-	-	-	T	T	P	P	123			
VEGF-C	P	V	T	I	S	F	A	N	H	T	S	C	R	C	M	S	K	L	D	-	-	-	-	-	-	-	-	V	Y	R	Q	V	H	S	I	224
VEGF-D	L	V	P	V	K	I	A	N	H	T	G	C	K	C	L	P	T	G	P	-	-	-	-	-	-	-	-	-	R	H	P	Y	S	I	207	
PDGF-A	V	Q	V	R	L	E	E	H	L	E	-	C	A	C	A	T	T	S	L	N	P	D	Y	R	E	E	D	T	G	R	195					
PDGF-B	A	T	V	T	L	E	D	H	L	A	-	C	K	C	E	T	V	A	A	A	R	P	V	T	R	S	P	G	G	S	196					
hPDGF-C PVDV	T	D	V	A	L	E	H	H	E	E	-	C	D	C	V	C	R	G	S	T	G	G	-	-	-	-	-	-	-	-	-	182				
mPDGF-C PVDV	T	D	V	A	L	E	H	H	E	E	-	C	D	C	V	C	R	G	N	A	G	G	-	-	-	-	-	-	-	-	-	182				

FIG. 9B

VEGF 165	A[R]QENPCGPCSSERRKHLFVQDPQTCKCSC	166
PIGF-2	RPKGRGKRRRENQRPTDCHLCG[D]AVPRR	170
VEGF-B167	DSPRPLC[P]RCTQHHPDPRT-----CRCRC	161
Pox Orf VEGF	TTTRPPRRRR	133
VEGF-C	I R R S L R A T - L P Q C Q A A N K I C P I N Y M W N N H I	253
VEGF-D	I R R S L O T P E E D E C P H S K K L C P I D M L W D N T K	236
PDGF-A	P R E S G K K R K R K R L K P T	211
PDGF-B	Q E Q R A K T P Q T R V T I R T V R V R R P P K G K H R K F	225
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165	K N T D S - R C K A R Q L E L N E R T C R C D K P R R	192
PIGF-2		170
VEGF-B167	R R R S F L R C Q G R G L E L N P D T C R C R K L R R	188
Pox Orf VEGF		133
VEGF-C	C R C L A Q E D F M F S S D A G D D S I D G F H D I C G P N	283
VEGF-D	C K C V L O D E - T P L P G T E D H S Y L O E P T L C G P H	266
PDGF-A		211
PDGF-B	K H T H D K T A L K E T L G A	241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PIGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K E L D E E T C Q C V C R A G L R P A S C G P H K E L D R N	313
VEGF-D	M T F D E D R -----	273
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PIGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	S C Q C V C K N K L F P S Q C G A N R E F D E N T C Q C V C	343
VEGF-D	- C E C V C K A P C P G D L I O H P E N - - - - C S C F E	297
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182

FIG. 9C

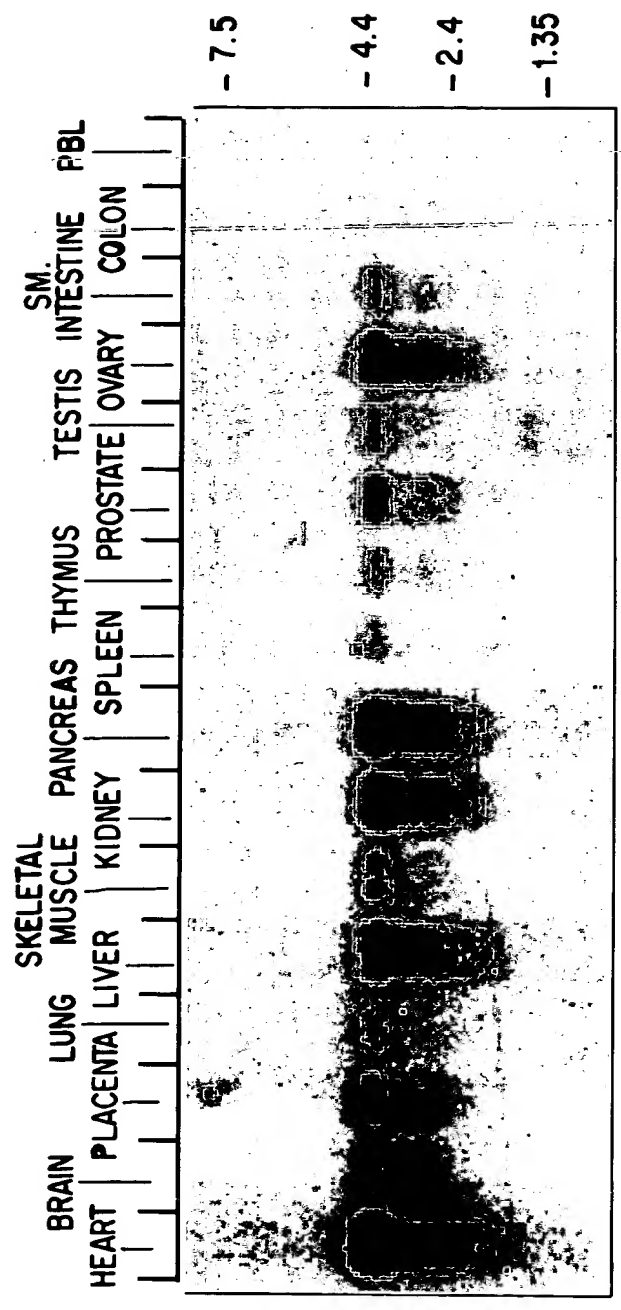
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K R T C P R N Q P L N P G K C A C E C T E S P Q K C L L K G	373
VEGF-D	C K E S L E S C C O K K K I - - - - -	312
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	K K F H H Q T C S C Y R R P C T N R Q K A C E P G F S Y S E	403
VEGF-D	- - F H P D T C S C E D R - C P F H T R T C A S R K P A C G	338
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182
VEGF 165		192
PlGF-2		170
VEGF-B167		188
Pox Orf VEGF		133
VEGF-C	E V C R C V P S Y W K R P Q M S	419
VEGF-D	K H W R F P K E T R A Q G L Y S O E N P	358
PDGF-A		211
PDGF-B		241
hPDGF-C PVDV		182
mPDGF-C PVDV		182

FIG. 9D

mPDGF-C CUB	ERVVTISGNGSIHSPKFFPHTYPRNMVLVWRLVAVDENVRI	85
hPDGF-C CVB	ERTITVSTNGSISHPRRFPHTYPRNTVLVWRLVAVENVWI	59
hBMP-1 CUB1	CGETLQDSTGNFSPEYPNGYSANNINCVWRI SVTPGE-KI	360
hBMP-1 CUB2	CGGDVKKDYGNIQSPNYPDYRPSKVCIWRI OVSEGF-HV	473
hBMP-2 CUB3	CGGFLTITKLNCSI TSPGWPEYPIPNKNCI WQLVAPTQY-RI	629
Neuropilin CUB1	GDTIKITIESPCYL TSPGYPM SYHPSEKCEWLIQAPD PYQRI	67
Neuropilin CUB2	CSQNYTTPSGVITKSPGFPPEEYPNSLCCTYIVPA X MSE-I	195
mPDGF-c cub	QLTFDERDGLD-----PEDDOCKYDPVEVEE--PSDGSVL	120
hPDGF-C CUB	QLTFDERFGLD-----PEDDI CKYDFVEVEE--PSDGTTL	93
hBMP-1 CUB1	ILNFTS-LDLYRSA-----LCWYDYVEVRDCPWAKAPLR	393
hBMP-1 CUB2	GLTFQS-FETIERND-----SCAYDYLEVRDGHSESSL	506
hBMP-1 CUB3	SLQFDF-FETEGND-----VCKYDFVEVRSGLTADSKLH	662
Neuropilin CUB1	MI NFNP HFDLED RD-----CKYDFVEV FDCENENG HFR	100
Neuropilin CUB2	ILEFES-FDLEPDSNPPCCMFCRYDRHLH TW DGF PDVGP	224
mPDGF-C CUB	GRWCGSGTVPCKQT SKGNHIRIRFVSD EYFPSEPGFCIHY	160
hPDGF-C CUB	GRWCGSGTVPGEQIT SKGNQIRIRFVSD EYFPSEPGFCIHY	133
hBMP-1 CUB1	CRFCGS-KLPEPIVSTDSRLWVEFRSSSNWVGK-GFFAVY	431
hBMP-1 CUB2	GRYCGY-EKPD DIKSTSSRLWLKFVSDG SINKA-GFFAVNY	544
hBMP-1 CUB3	GKFCGS-EKPEVIT SQYNNMRVEFXSDNTVSKK-GFFKAHF	700
Neuropilin CUB1	GKFCGK-IAPPPVVSSGPFLLFKIFVSDYE TKGA-GFFSIRY	138
Neuropilin CUB2	GKYCCGQ-KTPGRIRSSSGILSMVFYTD SAIAKE-GFFSANY	262
mPDGF-C CUM	STI	163
hPDGF-C CUB	MITV	136
hBMP-1 CUB1	EAI	434
hBMP-1 CUB2	FK	546
hBMP-1 CUB3	FSE	703
Neuropilin CUB1	-ET	140
Neuropilin CUB2	SVL	265

FIG. 11

FIG. 12



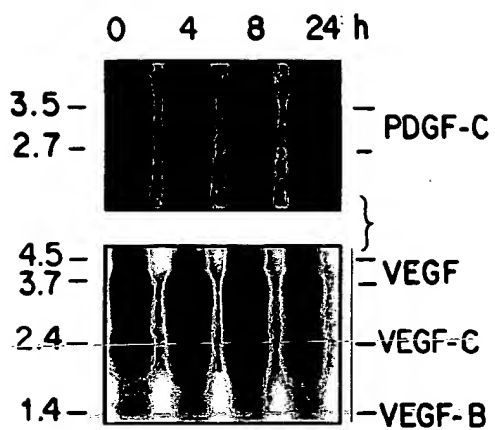


FIG. 13

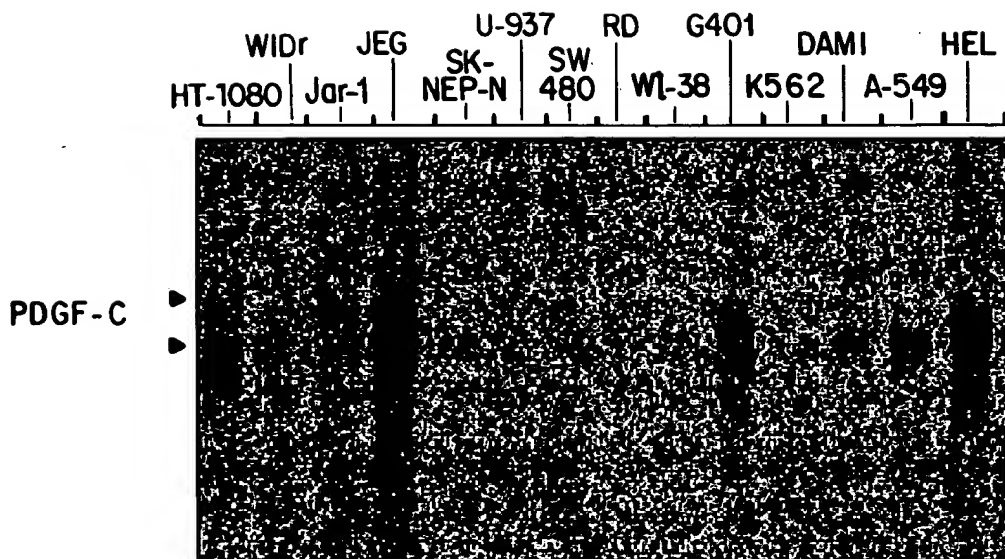


FIG. 14

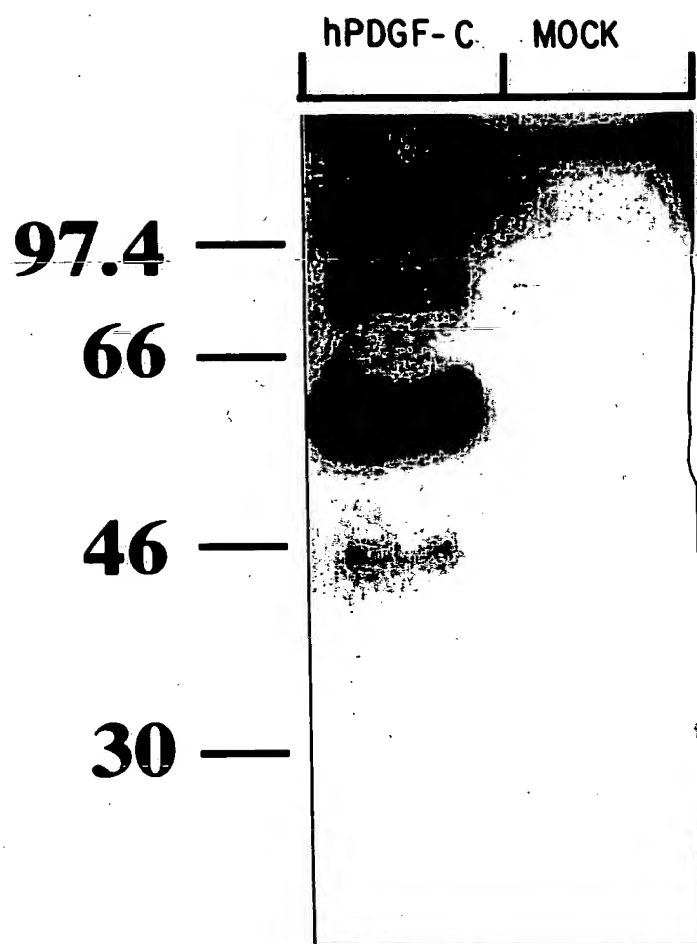


FIG. 15

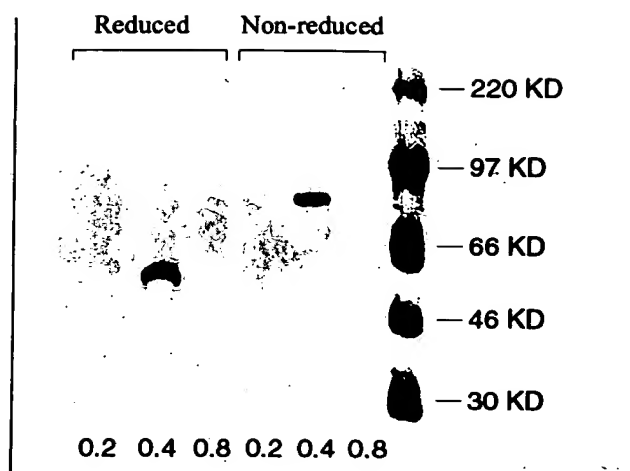


FIG. 16A

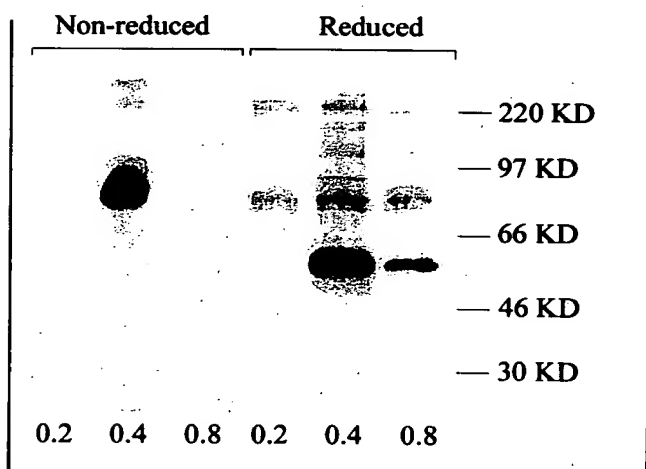


FIG. 16B

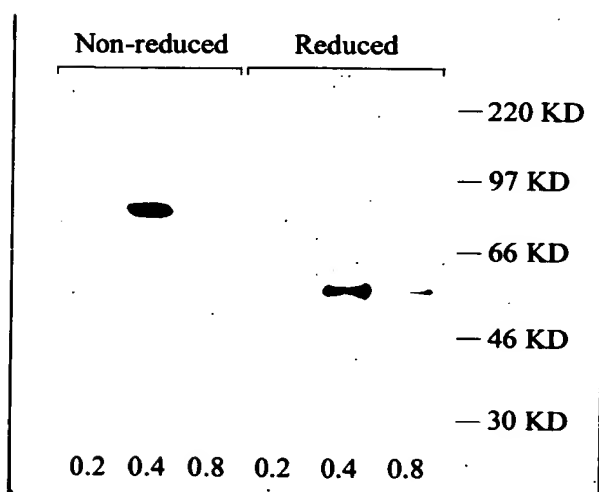


FIG. 16C

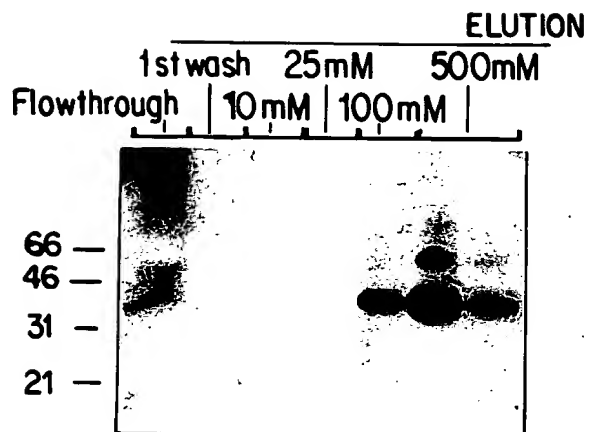


FIG. 17A

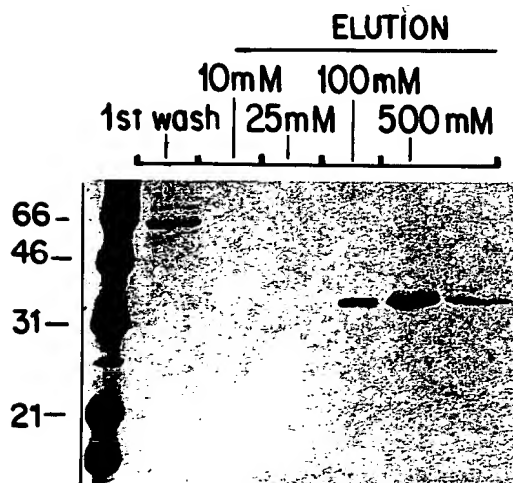


FIG. 17B



FIG. 17C

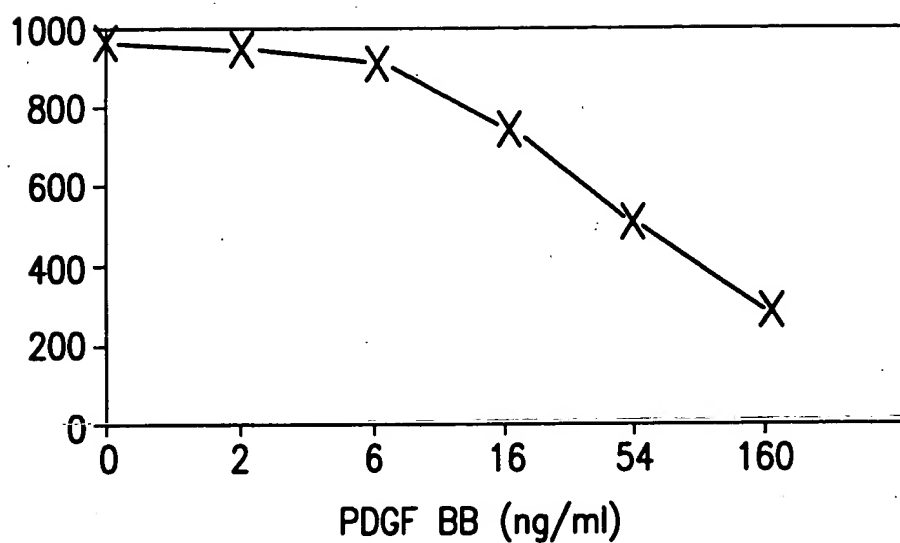


FIG. 18

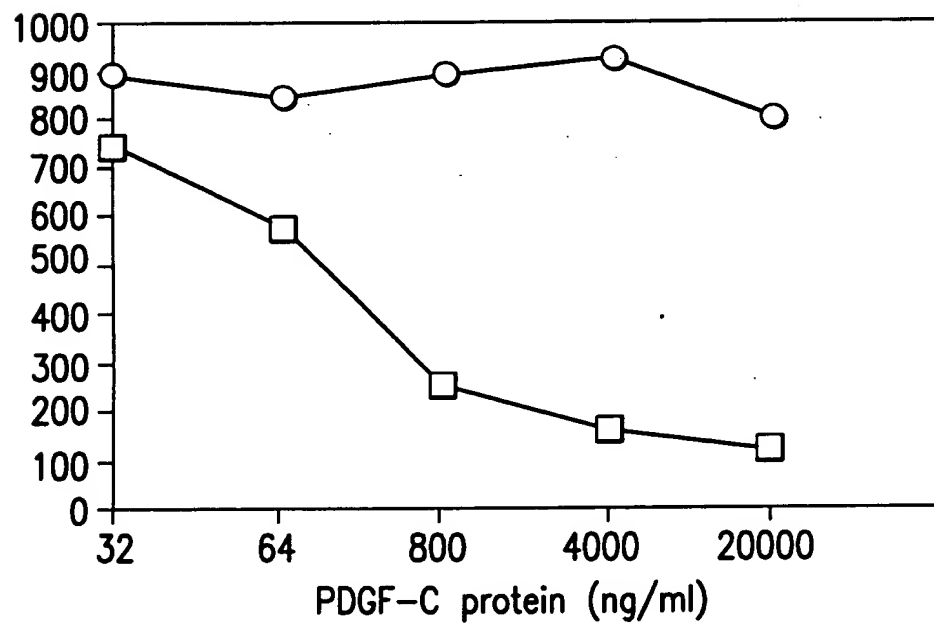


FIG. 19

NO STIMULATION	PDGF-AA (10 ng/ml)	cPDGF-CC (100 ng/ml)	cPDGF-CC (100 ng/ml)
	f1 PDGF-CC (100 ng/ml)	PDGF-AA (10 ng/ml) +	

FIG. 20

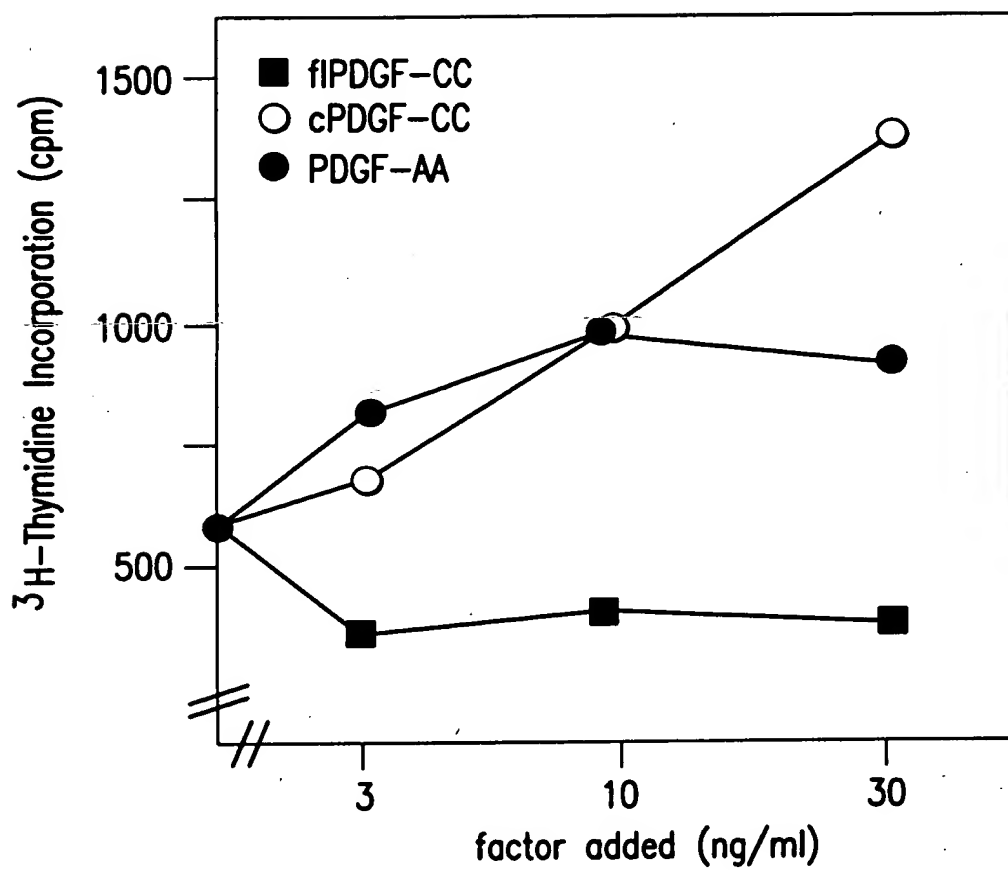


FIG. 21

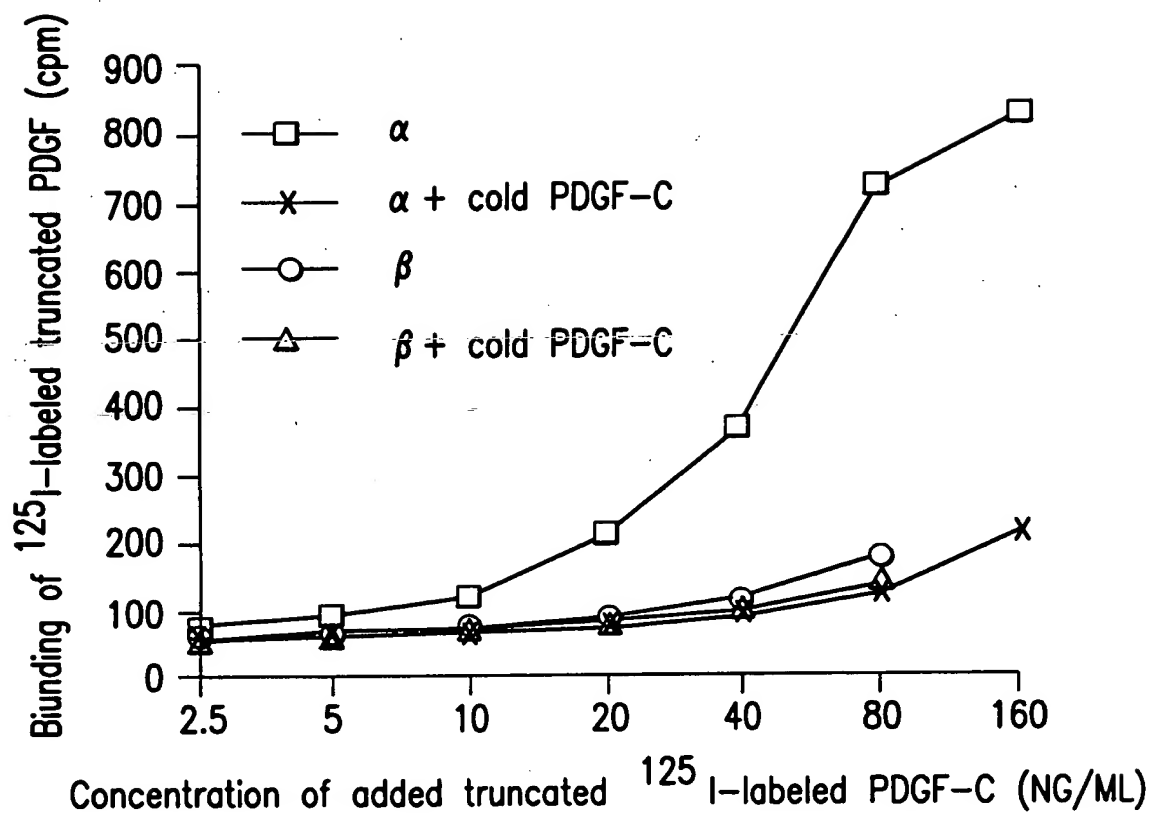


FIG. 22

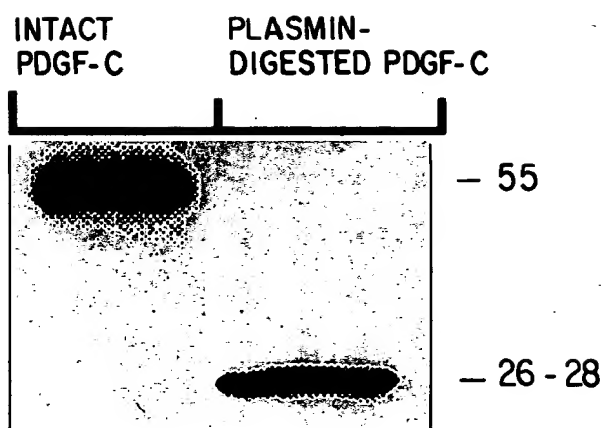


FIG. 23

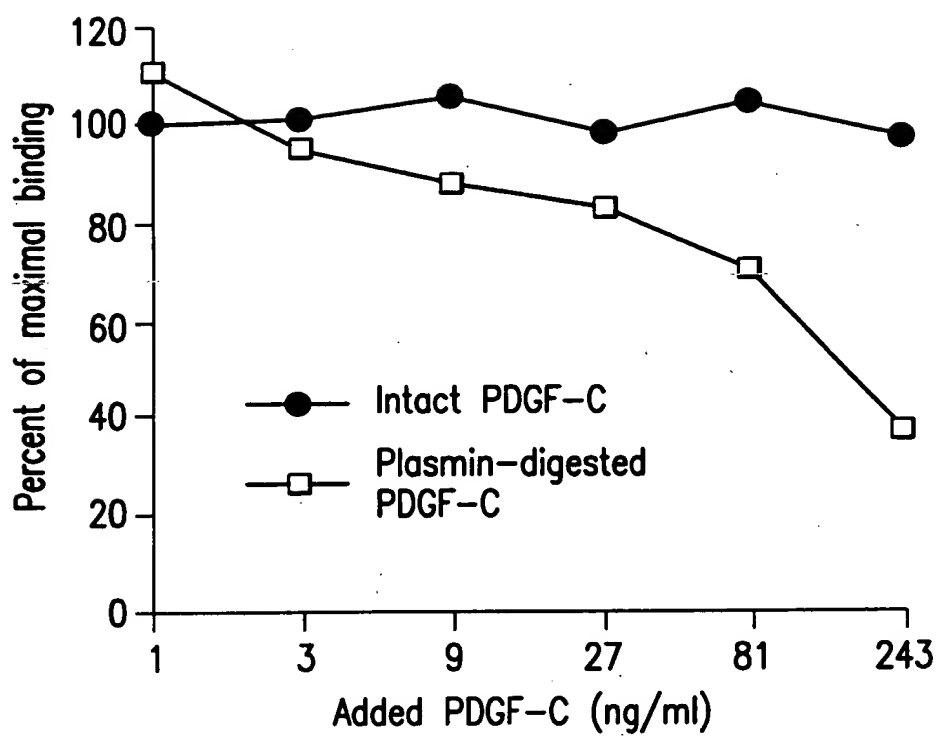


FIG. 24

09852209.051001

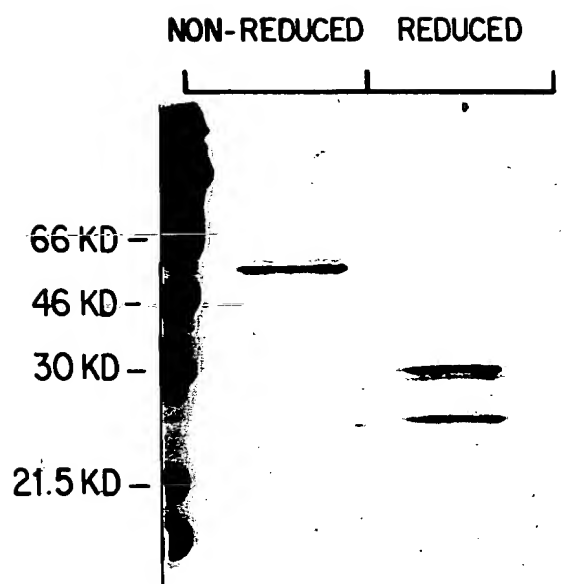


FIG. 25



FIG. 26A



FIG. 26B



FIG. 26C



FIG. 26D



FIG. 26E

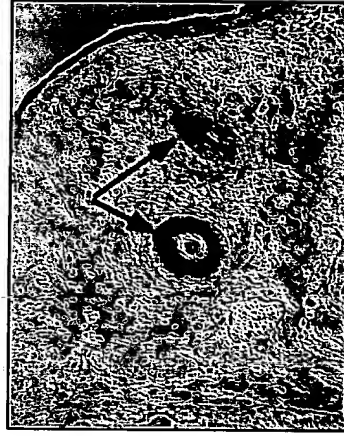


FIG. 26F



FIG. 26G



FIG. 26H



FIG. 26I

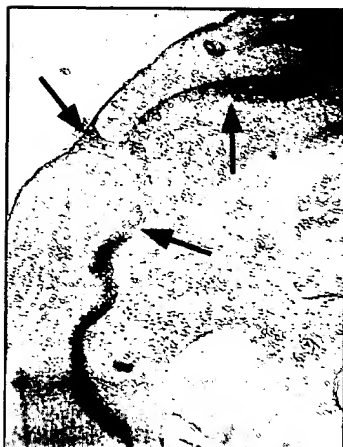


FIG. 26J



FIG. 26K



FIG. 26L

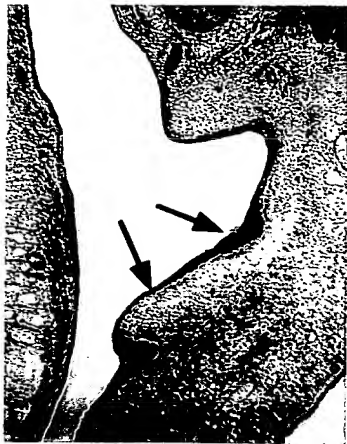


FIG. 26M



FIG. 26N

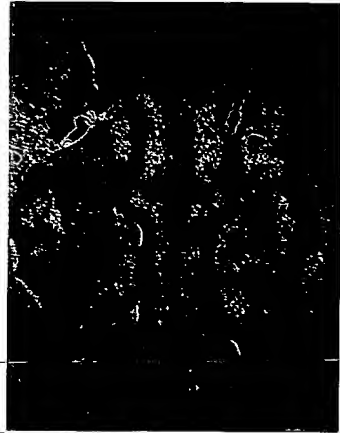


FIG. 26O



FIG. 26P

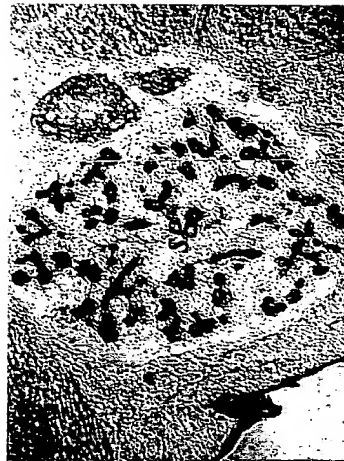


FIG. 26Q

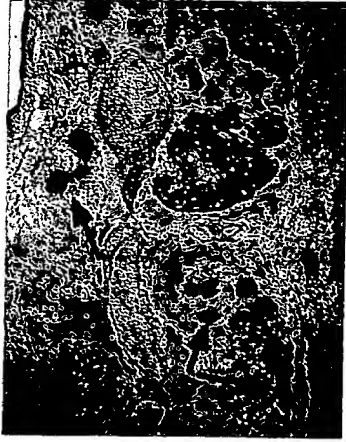


FIG. 26 R

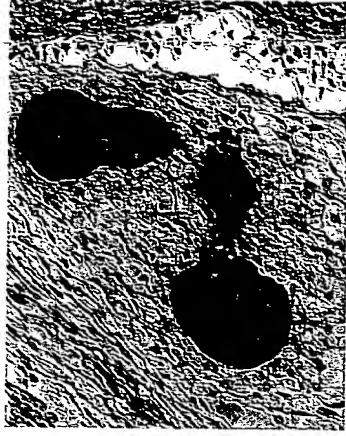


FIG. 26 S



FIG. 26 T

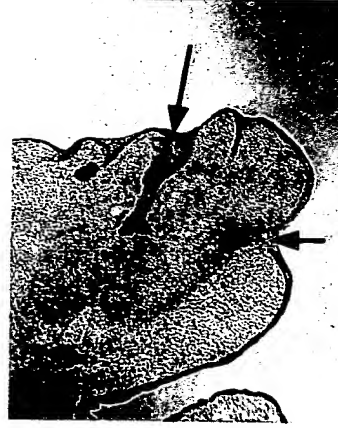


FIG. 26 U



FIG. 26 V



FIG. 27A



FIG. 27B



FIG. 27C



FIG. 27D

100150" 60225860



FIG. 27E



FIG. 27F



FIG. 28A



FIG. 28B

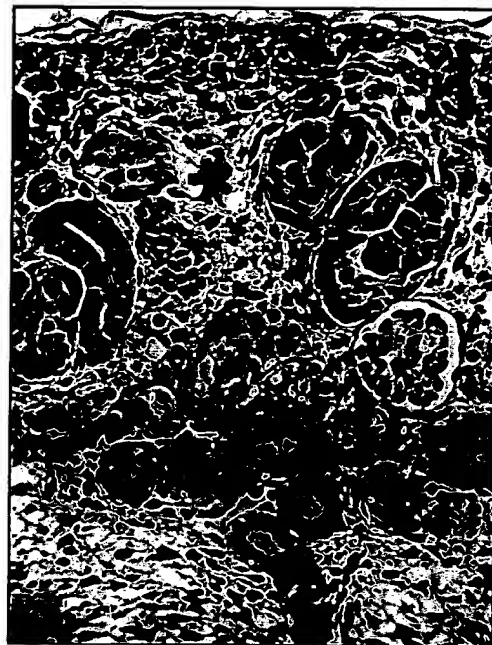


FIG. 28C

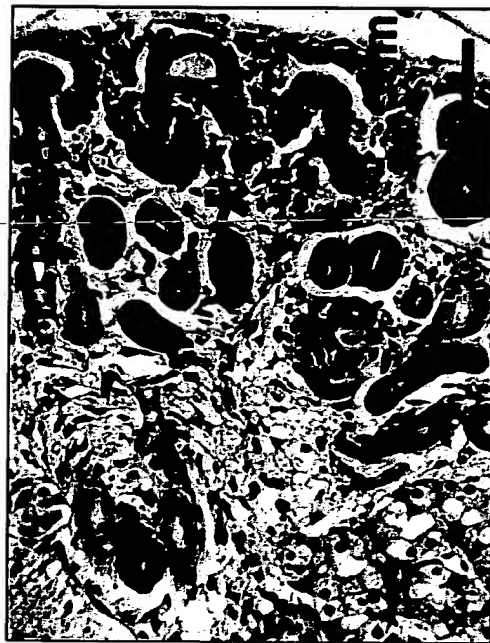


FIG. 28D

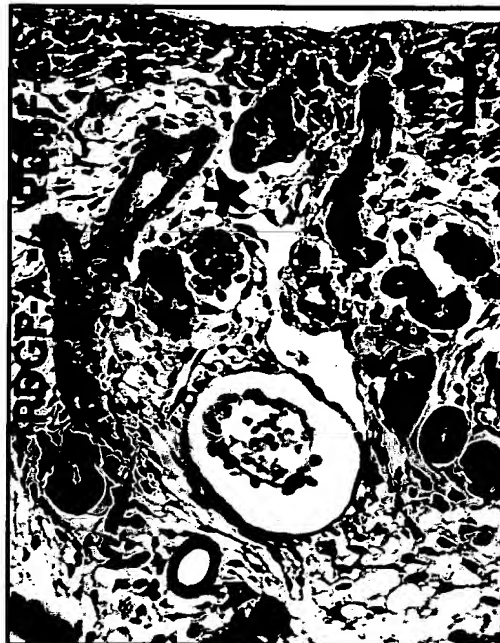


FIG. 28E



FIG. 28F

09552209.051001

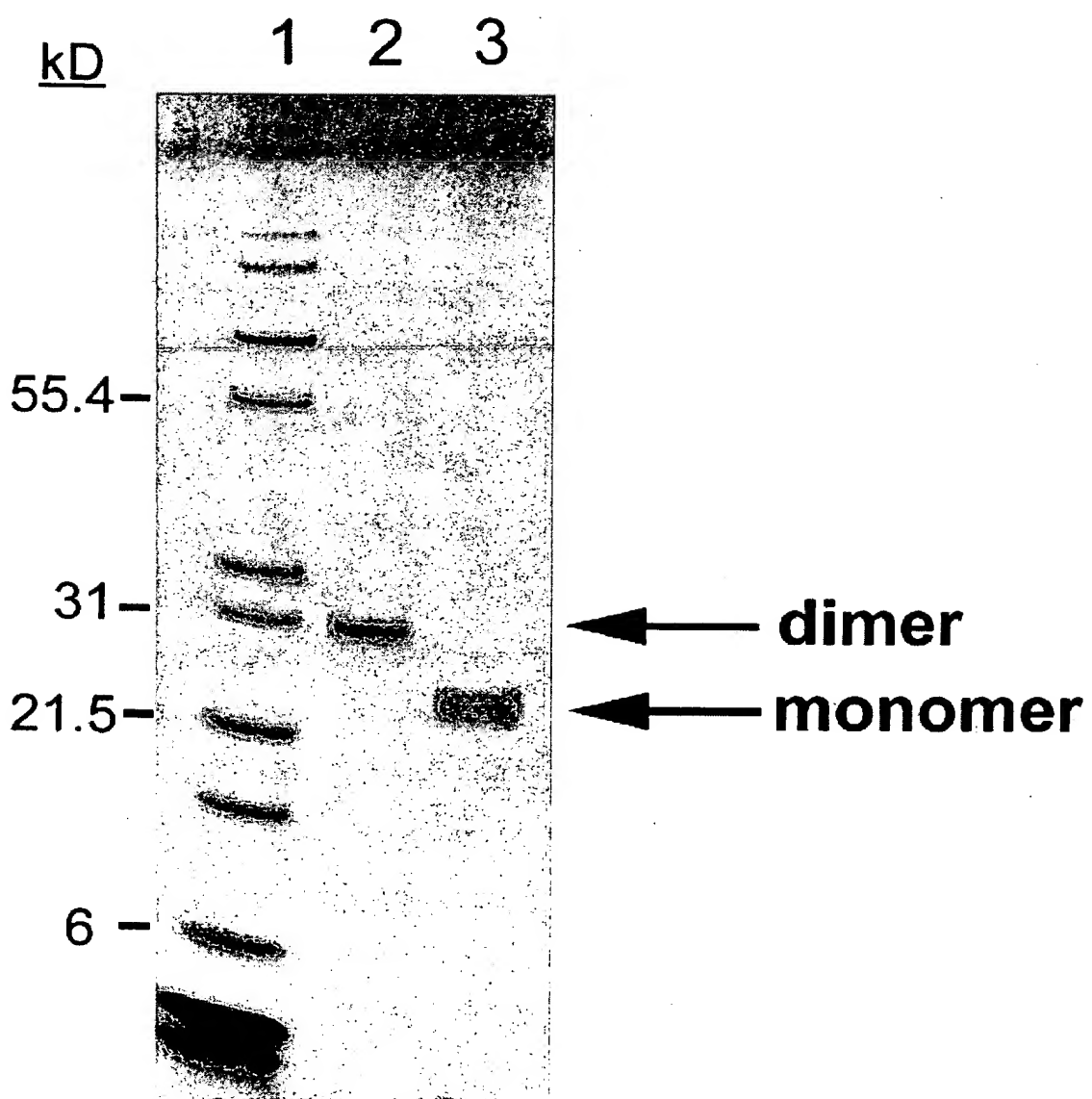


FIG. 29

FIG. 30A



FIG. 30B

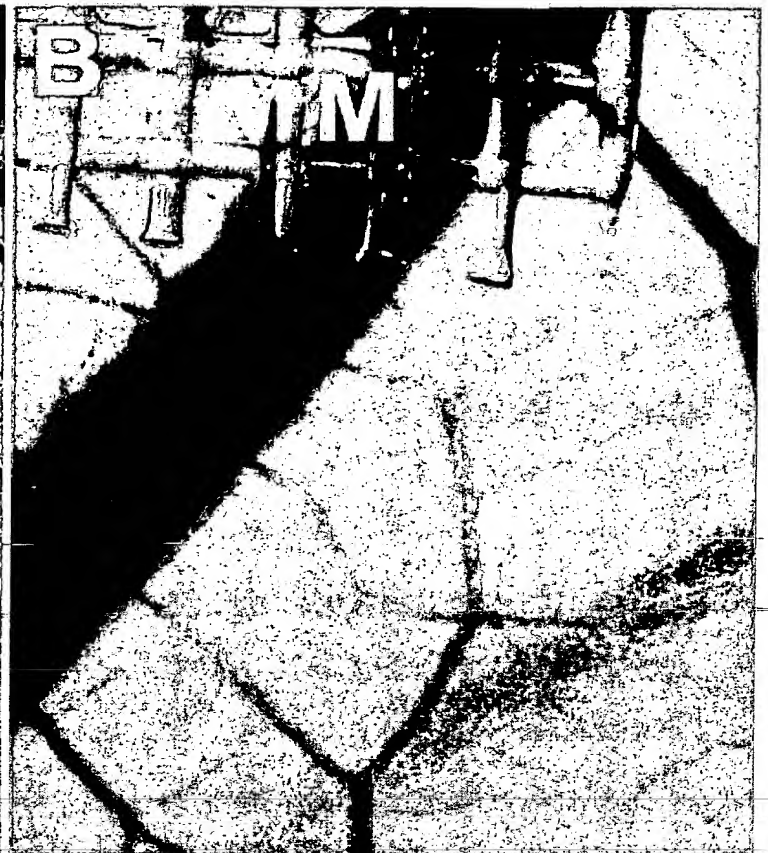


FIG. 30C

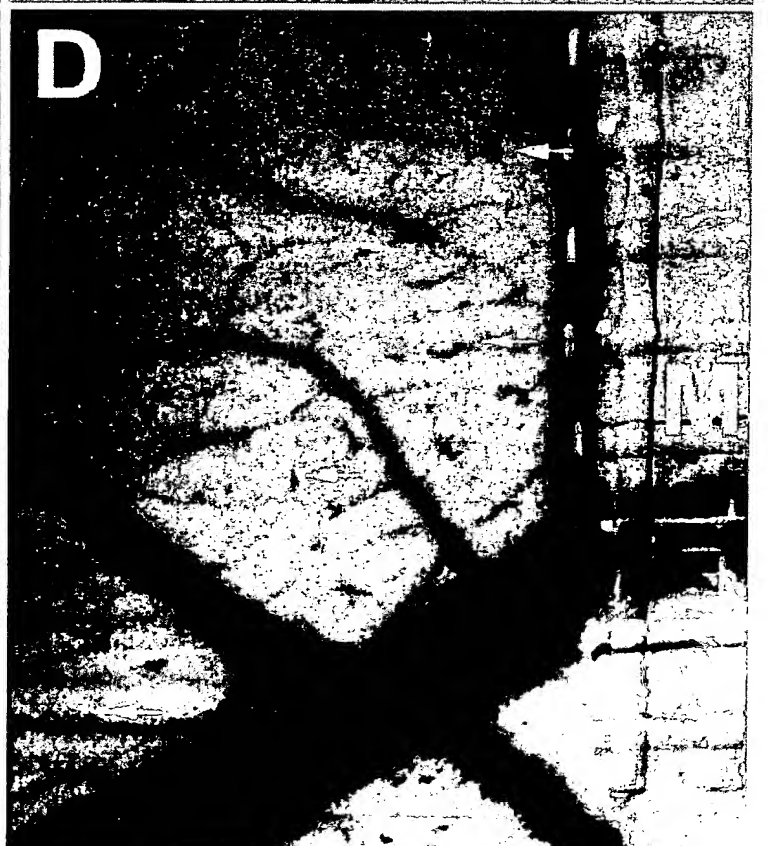


FIG. 30D

FIG. 31A

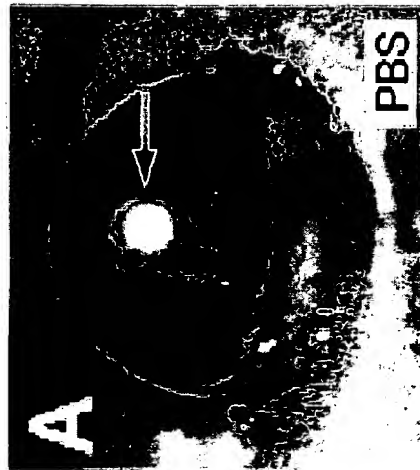


FIG. 31B

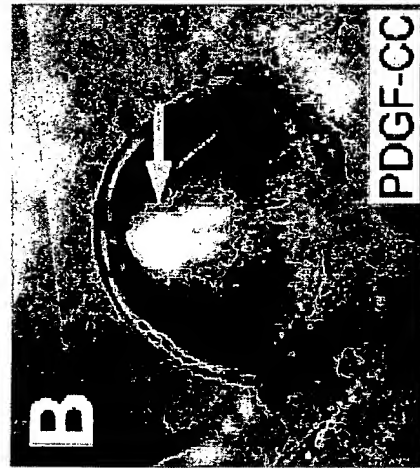


FIG. 31C

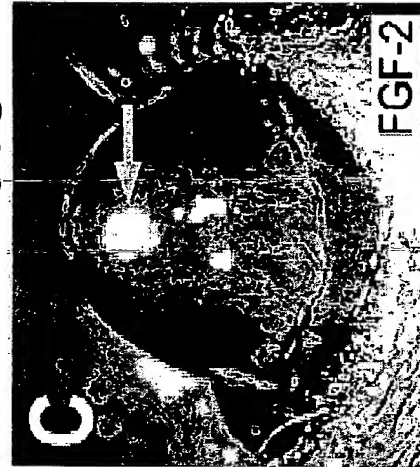


FIG. 31D

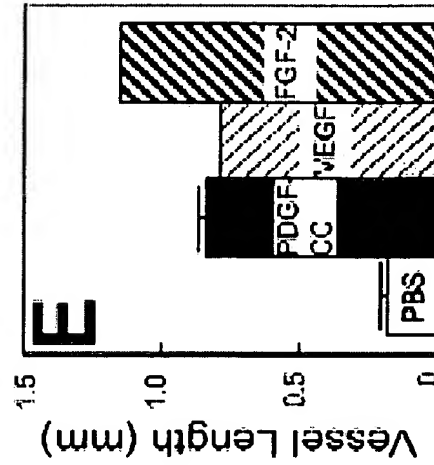


FIG. 31E

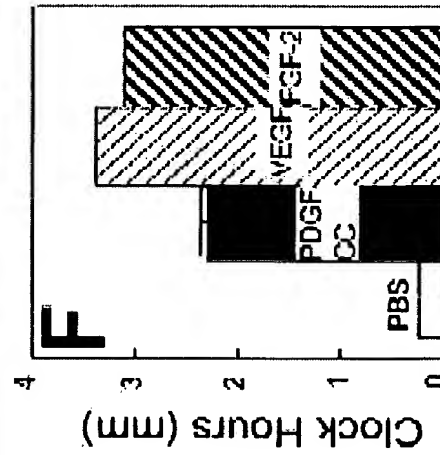


FIG. 31F

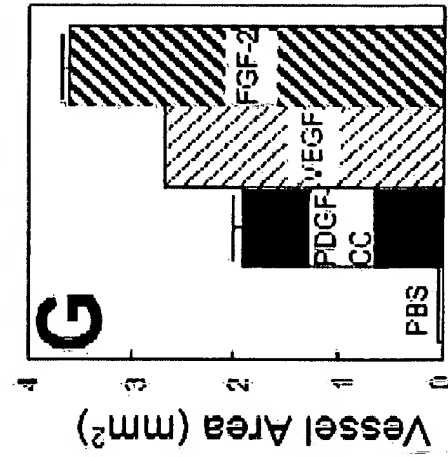


FIG. 31G

FIG. 32A

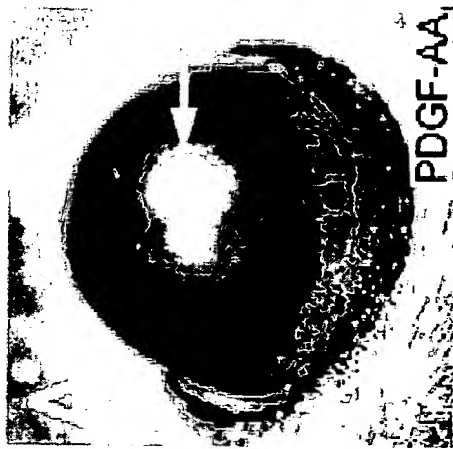


FIG. 32B

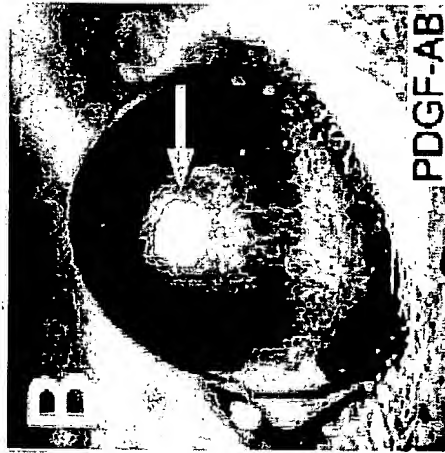


FIG. 32C



FIG. 32D

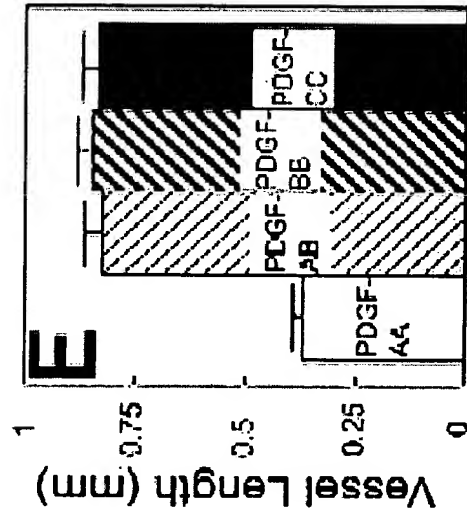


FIG. 32E

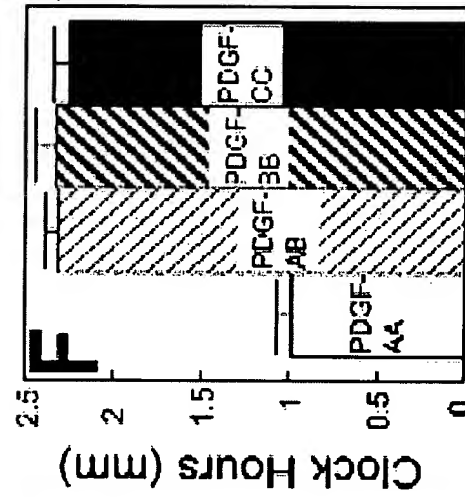


FIG. 32F

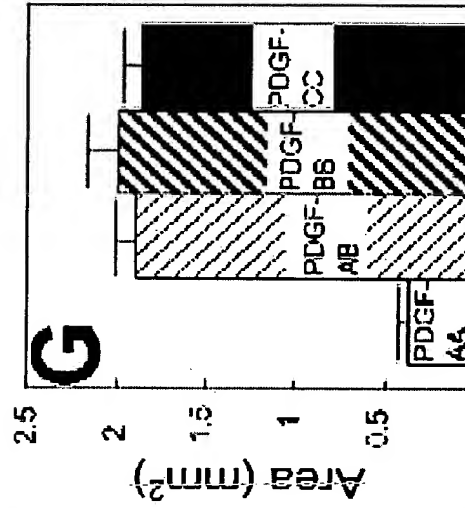


FIG. 32G

FIG. 33A



FIG. 33B

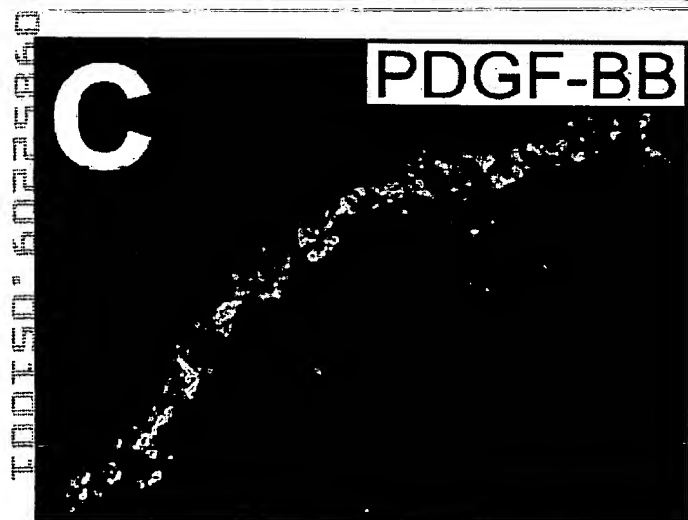


FIG. 33C



FIG. 33D

**E**

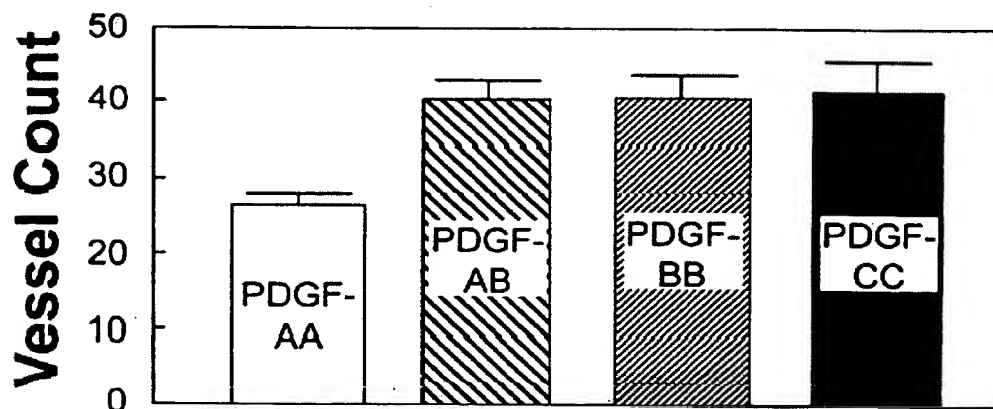


FIG. 33E